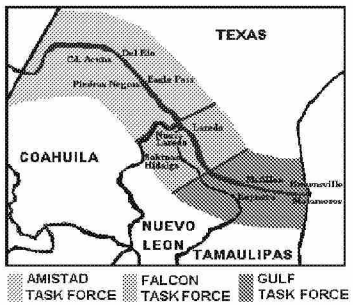
BORDER 2020
2015-2016 Action Plan
TX-COAH-TAMP-NL Regional Workgroup
March 2016



The Four-State Regional Workgroup is the most complex of the four regional workgroups because of its geographical extension and the number of municipalities. The region includes parts of three states and at least 29 municipalities on the Mexican side and 168 cities and towns on the U.S. side. Recognizing this, the workgroup divided itself into three geographically-based Task Forces—Amistad, Falcon, and Gulf--each of which established subject-specific committees related to its priority concerns.

Border 2020 has five goals and the regional work groups propose projects to implement these goals. These projects are tracked in two-year revolving work plans. The 2015-2016 version is the second of its kind. Several projects have been carried over from the 2013-2014 Action Plan. Due to consensus by the Four State Workgroup, a sixth goal for health and education projects was included. Projects are organized by Border 2020 goals and objectives.

During the first half of 2015 the three task forces held meetings to discuss initial priorities for the 2015-2016 Action Plan. Leaders held several conference calls in June 2015 to develop a consensus of priorities at the task force and regional workgroup levels.

Regional Priorities

1. Improve air quality through the following approaches:
    a. Increase energy efficiency at the consumption level and the use of renewable energy at all appropriate levels
    b. Analyze emissions and emission sources in specific air sheds
    c. A study on the possible health effects caused by climate change

2. Improve water quality by taking the following actions:
    a. Evaluate the Rio Grande watershed in the region
    b. Establish enforcement programs to prevent pollution on water bodies on the Mexican side
    c. Improve water infrastructure as it pertains to treatment systems and distribution in rural areas

3. Address problems of improper waste disposal

4. Assist communities to build capacity for waste streams by implementing recycling, household hazardous waste and electronic waste collection and disposal programs and develop comprehensive plans for scrap tire disposal and alternative markets

5. Expand environmental education related to waste issues

6. Enhance joint preparedness for environmental response
    a. Provide HAZMAT training to local first responders to reduce exposure to chemicals as a result of accidental chemical releases and/or spills
    b. Coordinate emergency preparedness response table top or field exercises.

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7. Develop a certified environmental health curriculum to train border community health workers and promotoras on lead, mercury, pesticides, and other heavy metals

Individual Task Force Priorities

Amistad Task Force

1. Generate plans to mitigate the impacts of climate change in Coahuila
2. Establish air quality monitoring stations and exchange data with Texas
3. Develop a database to measure emissions of hydraulic fracturing operations in Coahuila
4. Increased use of alternate and renewable energy sources (such as landfill gas and solar energy)
5. Develop water conservation and reuse programs for irrigation in Coahuila
6. Establish waste management programs in ten municipalities in Coahuila (including used electronics, household hazardous waste management and recycling)
7. Develop and promote scrap tire, recycling and solid waste management programs on the Kickapoo Reservation

Falcon Task Force

1. Conduct a study on the use of methane gas for energy generation in landfills
2. Monitor drilling operations in the Eagle Ford Shale and on the Mexican side
3. Finalize the cross-border contingency plan
4. Generate studies and projects for water reuse and conservation
5. Develop adequate management, alternative markets (such as tire cutters) and ordinances for scrap tires
6. Establish used electronics and household hazardous waste programs in municipalities in the Falcon Task Force
7. Develop an assessment on the generation and alternative markets for construction waste in the Falcon Task Force
8. Develop a workshop on best practices related to public health and environmental education indicators

Gulf Task Force

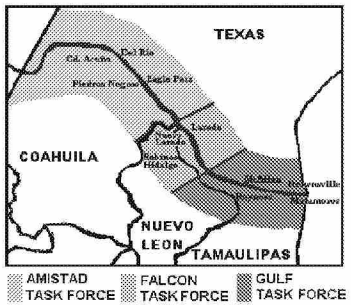
1. Outreach programs to improve energy efficiency
2. Educate the community on how to improve water quality
3. Improve or develop Industrial Pretreatment, Fats, Oil & Grease Management and Storm Water Programs
4. Increase environmental awareness and responsibility with regard to solid waste and water related health effects in city residents, rural communities and colonias
5. Healthy Homes training for promotoras along the Gulf Task Force U.S. - MX border

Border 2020

2015-2016 Action Plan Grid
Four-State Regional Workgroup

Legend:

- Activity covers at least two task force areas
- Gulf Task Force
- Falcon Task Force
- Amistad Task Force



GOAL # 1: Reduce Air Pollution

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of Funding	Contact(s)	2015-2016 Target	Progress Towards Target
Objective 1: By 2020, reduce the number of vehicles operating in the border region that do not comply with the respective vehicle emissions standards, and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible measures.							
1.1.01	**Characterization of Drayage Activities & Emissions Laredo-Nuevo Laredo Airshed** Develop a detailed characterization of the drayage activity in the Laredo-Nuevo Laredo region and its air quality implications.	Texas A&M Transportation Institute	$89,750	Border 2020	Dr. Reza Farzaneh, TTI, Reza.Farzaneh@tamu.edu (512) 467-0946	Gather activity information on drayage vehicles to estimate their emissions impacts in the Laredo and Nuevo Laredo airshed.	The study indicated that the World Trade Bridge had a high concentration of particulate matter due to idling by trucks when waiting to cross customs and that slower speed and their movement were factors that coincided with high particulate matter at the bridge and in urban areas, based on their destination. TTI organized an

							October 2015 workshop to share the findings. The study concluded in December 2015.
1.1.02	**Emissions from Long Haul MX Diesel Trucks in Laredo-San Antonio Corridor** Survey diesel truck activity and evaluate typical Mexican diesel truck emissions along Laredo-San Antonio Corridor.	Texas A&M Transportation Institute	$100,000	EPA, TCEQ	Dr. Reza Farzaneh, TTI, Reza.Farzaneh@tamu.edu (512) 467-0946	Collecting and analyzing data. TTI will present findings and report in August 2015.	The project is complete. In August a final report was submitted to TCEQ with findings and is currently under review.
Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to quality data.							
1.3.01	**Update the Ecological Program Code for the Cuenca de Burgos Region, Tamaulipas**	SEDUMA	2 Million Pesos	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Develop a Monitoring and Evaluating System for the most relevant environmental indicators, considering performance, defining measurements that allow one to track the strategy's effectiveness and the code's defined policies.	The project is in the process of being updated by a hired external consultant that will perform modifications to the current code.
Objective 4: By 2015, support completion of climate action plans in each of the six northern Mexican Border States and build the necessary capacity to guarantee sustained implementation.							
1.4.01	**Municipal Climate Action Plan of San Fernando, Tamaulipas**	SEDUMA, Gobierno Municipal de San Fernando, Tamaulipas	2.199 Million Pesos	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Develop a public policy planning instrument for the development of strategies and	This project is undergoing administrative procedures to execute the awarded budget.

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						actions to mitigate greenhouse gas emissions. Reduce municipal vulnerability to climate change by enhancing adaptability.	The municipality of San Fernando will oversee the project and has State support for the validation of reference terms and the respective technical annex.
1.4.02	**Tamaulipas State Climate Change Program**	SEDUMA Tamaulipas	$200,000	Banco Interamericano de Desarrollo (BID)	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Update the greenhouse gas emissions inventory and develop the program's climate change adaptation agenda	An external consultant will develop the project. The t inventory has been updated completed and the Adaptation Agenda is being developed and the integration of the inventory and the agenda. The deadline November 2015.
1.4.03	**Energy Efficiency in Municipal Public Lighting Systems of Tamaulipas** Raise awareness and sensitize technical staff on the responsibility in the operation and use in the current administrations to save energy in lighting systems, buildings and facilities in the 10 border municipalities of the state.	SEDUMA Tamaulipas	$9,385	Border 2020	Oc. Heberto Cavazos Lliteras SEDUMA Tamaulipas heberto.cavazos@tamaulipas.gob.mx 01 (834) 107-82-60	Train 30 public servants of 10 municipalities with basic tools to achieve greater energy efficiency and money saving.	
Objective 5: By 2020, reduce emissions and associated impacts, through energy efficiency and/or alternative/renewable energy projects.							
1.5.01	**Coahuila Climate Action Plan** Initiate Phase 2 of the State Climate Action Plan (PEAC) for Coahuila: Quantification of the mitigation policies selected in Phase 1.	Coahuila State Government and BECC	$275,000	BECC	Tomás Balarezo, BECC, tbalarezo@cocef.org	Econometric evaluation of the mitigation policies selected in Phase 1.	The project is currently in the Microeconomic and Public Policy Phase for Coahuila. Meetings have been held with the Technical Working Groups, the Advisory Group, and the Climate Change Committee.

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1.5.02	**Air Quality Network in Coahuila** Establish an air quality monitoring network in the areas of Piedras Negras-Nava, Acuña, Sabinas, and Saltillo, Coahuila.	SEMA (Coahuila), Municipalities of Piedras Negras, Acuña, Nava, Sabinas, Saltillo	12 Million Pesos	SEMARNAT	Santiago Barrios, SEMA/Coahuila, santiago.barrios@sema.gob.mx	Establish an operating ambient air quality monitoring network in the Piedras Negras-Nava Region, Acuña, Sabinas Region and Saltillo Region, Coahuila.	The project has been authorized and is in the review phase prior to bidding.
1.5.03	**Tamaulipas Climate Action Plan** Initiate Phase 2 of the State Climate Action Plan (PEAC) for Tamaulipas: Quantification of the mitigation public policies selected in Phase 1.	Tamaulipas State Government and BECC	$300,000	BECC, BID	Tomás Balarezo, BECC, tbalarezo@cocef.org	Select a number of prioritized mitigation public policies for climate change.	A Comité Intersecretarial ante el Cambio Climático (CICC) has been established, as well as Integrated Technical Working Groups (TWG) and the Advisory Group (AG). A consultant has been hired. They are working on the agenda and updating the emissions inventory, as well as integrating both components.
1.5.04	**Ambient Air Monitoring System** Strengthen Tamaulipas' ambient air monitoring system.	SEDUMA Tamaulipas	Annually: 250,000 Pesos (150,000 Municipal & 100,000 State)	SEDUMA, City Council of Matamoros	Biol. Jorge Garcia, jgarciah@tamaulipas.gob.mx 834 1078291	By 2014, the system will operate at 100% with programmatic consistency standards.	Currently four of the eight municipalities have operating air monitoring networks [Nuevo Laredo, in Victoria (2), Madero and Tampico]. The operation site for the four monitors located in Matamoros for the last trimester of 2015 is being managed.
1.5.05	**Green Infrastructure Workshop**	SEMA, COCEF		SEMA, COCEF	Tomás Balarezo, COCEF, tbalarezo@cocef.org	Train municipalities on Green infrastructure.	Two workshops were held: April 21, 2015, in which 5 municipalities from the Southeast region attended and a second workshop May 27, 2015, with attendees from 10

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							municipalities in the Central and Desert regions. The state workshop will occur in the final trimester of 2015.

Goal # 2: Improve Access to Clean and Safe Water

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Contact(s)	2015-2016 Target	Progress Towards Target
Objective 2: Help drinking water and wastewater service providers in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.							
2.2.01	**Upgrade Nuevo Laredo Sewer Line Infrastructure** Install new or upgrade selected existing sewer lines and connect them to Nuevo Laredo's wastewater treatment plant to prevent contaminated discharges through the stormwater system to the Rio Grande	COMAPA and Municipio de Nuevo Laredo	$5 Million	NADB	Delfino González C.P., COMAPA, dgcdelfino@comapanuevolaredo.gob.mx	Complete the project by January 2015.	The BECC certified the project in September 2012. Of the five sewer lines, one was completed during the first half of 2014. The remaining four lines are under repair and discharge about 1.6 MGD to the storm water system. Another discharge point was identified by COMAPA in the Arroyo La Joya and will be repaired.
2.2.02	**Nuevo Laredo Management of Fats, Oils, and Grease (FOG)** Reduce the amount of fats, oils, and grease in the effluent coming from restaurants and hotels and industrial dining facilities in Nuevo Laredo	Comisión Municipal de Agua Potable y Alcantarillado, Nuevo León.	$32,533	Border 2020	Ing. Juan Carlos Pérez, COMAPA Nuevo Laredo, jcarlos_faz@hotmail.com 01152867 717-24-44	Hold workshops and follow-up with commercial establishments on implementation of FOG programs	COMAPA organized workshops with the support of students from the Technical University to educate commercial establishments and residents on best practices. The last workshop was held in August of 2015 and included a tour of the International Waste Water Treatment Plant. All the establishments that participated

							in the workshops have grease traps and are applying control and operating techniques. COMAPA is drafting the final project report.
2.2.03	**Ideal Biological Filtration Material South Texas Storm Management** Identify the best locally available material for use in bio-swale in the Lower Rio Grande Valley & South TX.	University of Texas RGV	$26,022	Border 2020	Jungseok Ho, Ph.D., P.E. Assistant Professor (956) 665-3104 jungseok.ho@UTRGV.edu	The proto-type bioswale will be tested in a newly constructed parking lot on the Edinburg campus of the University of Texas RGV.	The recycled ground glass of medium porosity demonstrated good hydrologic performance in the biological filtration process.
2.2.04	**Decision Making Tool for Determining Stormwater Detention** Promote research and educational topics emphasizing how green infrastructure strategies can be utilized to mitigate stormwater runoff, to maximize local stormwater runoff detention at development projects, to minimize localized flooding in urban, rural, and colonia settings, and to manage oil and grease and other illicit discharges.	Texas A&M University-Kingsville	$38,885	Border 2020	Javier Guerrero, E.I.T., M.S. Texas A&M University-Kingsville (956) 929-7189 Javier.Guerrero@tamuk.edu	Conduct educational workshops to identify existing green infrastructure (GI) structures and LID BMPs, draft a Quality Assurance Project Plan. DMTG model development, calibration and implementation. Host workshops to showcase the DMTG and promote the innovative tool.	
Objective 3: Work binationally to identify and reduce surface water contamination in transboundary waterbodies or watersheds.							
2.3.01	**Removal of Invasive Plants** Implement a program to remove invasive plants in the Rio Grande.	SEMA Coahuila, CONANP, PROFAUNA, WWF, Slim Foundation	1.5 Million Pesos Annually	SEMA Coahuila, CONANP, Profauna	Alejandra Carrera, SEMA Coahuila, alejandra.carrera@sema.gob.mx	Plant Control: removal by year, in hectares (ha) 2015: *Tamarix* 34 ha and Carrizo 40	Since 2014 PROFAUNA and CONANP with the support of WWF and the Slim Foundation have annually eradicated 34

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				WWF, Slim Foundation	01152844 410-0014	ha 2016: *Tamarix* 34 ha and Carrizo 40 ha.	hectares of the *Tamarix* plant and 40 hectares of Carrizo cane. To date they have continue to protect the same quantity of land and it is anticipated that they will eradicate this amount in 2016.
2.3.02	**Conservation of Arroyo Las Vacas** Design and implement actions to improve water quality and promote an adequate habitat for flora and fauna species in the Arroyo Las Vacas.	Ciudad Acuña Environment Department of, SEMA Coahuila	$44,200	Border 2020	Lic. Alejandra Carrera, Secretaria de Medio Ambiente de Coahuila, alejandra.carrera@sema.gob.mx 01152844 410-0014	implement actions to improve water quality and promote an adequate habitat for flora and fauna species in Las Vacas.	SEMA Coahuila and TCEQ organized a binational surface water quality monitoring workshop in October 2015 at Amistad Dam Participants learned about surface water quality monitoring programs in Texas and Coahuila, sampling techniques and data comparison on specific water quality parameters. SEMAC is interested in creating a program similar to Texas' Clean Rivers Program. SEMAC and its partners conducted water quality sampling at 15 sites along the Arroyo Las Vacas. The results did not yield any sources of heavy metals or otherpollutants. A closing ceremony of the Las Vacas project was held in Ciudad Acuña in February 2016.
2.3.03	**Lower Rio Grande Binational Water Quality Initiative (LRGWQI)** Implement a binational Lower Rio Grande Water Quality Initiative (from Falcon to the Gulf of Mexico)	TCEQ, EPA, IBWC, CILA, CONAGUA, and federal, state, and local government agencies		TCEQ, EPA, IBWC, and federal, state, and local government agencies	Kelly Holligan ,TCEQ, 512-239-2369, Kelly.holligan@tceq.texas.gov		In March, the LRGWQI's Binational Technical Work Group conducted the first of four binational synoptic water quality surveys scheduled for the project. They also developed a preliminary

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	that characterizes the state of the river, develops a strategic plan to improve environmental conditions, and proposes a monitoring plan to document progress						input file for a steady-state water quality model of the Rio Grande/Río Bravo (Falcon Dam to Gulf of Mexico).
2.3.04	**Fat, Oil and Grease (FOG) Public Outreach Campaign** Provide outreach and education to improve water quality by reducing the number of sanitary sewer overflows from commercial and residential customers while increasing environmental awareness of how fat, oil and grease contribute to a potential health hazard if not handled correctly	Brownsville Public Utilities Board	$25,000	Border 2020	Alicia Gracia, Brownsville Public Utilities Board agracia@brownsville-pub.com (956) 983-6483	Create and implement a Fat, Oil and Grease Public Outreach campaign to reach at least 250,000 citizens. Host four workshops and provide one-on-one assistance to at least 50% of the businesses in need of further education.	
2.3.05	**Dissemination and Awareness of the Regulations for the Control of Discharges** Promotion and dissemination of local discharge regulations among stakeholders to enable their implementation and enforcement through training workshops	Junta de Aguas y Drenaje – Matamoros, Tamaulipas	$25,000	Border 2020	Arquelao López JAD Matamoros 868 150-21-30 arkelao57@gmail.com	Work on a municipal wastewater discharge ordinance. Hold educational workshops on FOG program. Perform wastewater lab testing on commercial users.	
2.3.06	**Supporting Local Stakeholder Participation in the Lower Rio Grande/Rio Bravo Water Quality Initiative** Foster a sense of ownership among local stakeholders of a binational plan to restore and protect the	University of Texas at Austin	$58,575	Border 2020	Dr. David Eaton eaton@mail.utexas.edu	Organize five workshops on local water quality issues.. Develop a Memorandum of Understanding (MOU) between	

	water quality in the Lower Rio Grande and establish a sustainable forum for local information exchange and cooperation among of the binational community of water users in the Lower Rio Grande					stakeholders and binational partnerships.	

Goal # 3: Promote Materials Management, Waste Management, and Clean Sites

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Objective 1: By 2020, increase local and state-level knowledge and experience in the area of sustainable material management practices							
3.1.01	**Nuevo Laredo Environmental Education Program** Establish an environmental organization to develop environmental awareness and clean-up programs in Nuevo Laredo in affiliation with Keep America Beautiful	Keep Laredo Beautiful, Keep America Beautiful, and the Municipality of Nuevo Laredo		City of Laredo Environmental Services local partners, and Keep America Beautiful	Lynne Nava, Keep Laredo Beautiful, lnava1@ci.laredo.tx.us 956-794-1650	Establish an environmental organization affiliated with Keep America Beautiful by 2016.	Keep Laredo Beautiful met with officials of the Technological University of Nuevo Laredo in October of 2015 and January 2016 to discuss the general requirements for an organization to be affiliated with Keep America Beautiful. Officials of the University will start a recruiting process to form a board of directors in Nuevo Laredo. Keep Laredo Beautiful will consult with City of Laredo officials on establishing a joint financial account to support the organization in Nuevo Laredo, with a work meeting scheduled this summer.
3.1.02	**Characterization of Municipal Solid Waste, Waste Streams & an Evaluation Regarding**	Secretariat of Sustainable Development Nuevo León and Municipio of	$47,000	Border 2020, BECC	Norma Rangel Sevilla, SDS, Nuevo León, normaarangel@gmail.com	Analyze the generation of solid and "special management"	Project completed. The study was finished in June 2015. More details of the study will be provided at a later date.

	Generation/Management of Waste Study and characterize the municipal solid waste stream in Sabinas Hidalgo, Nuevo León. Analyze the generation of solid and "special management" of waste in six border municipalities in Nuevo León.	Sabinas Hidalgo, Nuevo León			0115281 20 33-19-38	wastes in six border municipalities and characterize the solid waste stream in Sabinas. Complete the study in 2015.	
3.1.03	**Operation of an Electronic and Household Hazardous Waste Collection Center**	Municipality of Nuevo Laredo, Tamaulipas	3.626 Million Pesos	Municipality of Nuevo Laredo, Tamaulipas	Arq. Carlos de Anda Secretario de Obras Públicas, Desarrollo Urbano y Medio Ambiente, cdeandah@hotmail.com	Develop the municipal infrastructure for collecting, managing, and disposing of electronic and hazardous waste	The sites are finished. Only SEMARNAT approval is needed for operation, which is already being souoght. It is possible for operations to start in the last trimester of the year.
3.1.04	**Environmental Ordinance for the Disposal of Construction Waste**	Municipality of Nuevo Laredo, Tamaulipas	The project is funded through money paid by residents for the management and processing of waste.	Municipality of Nuevo Laredo, Tamaulipas	Arq. Carlos de Anda Secretariy of Public Works, Urban Development & the Environment, cdeandah@hotmail.com	Generate an alternative for the community for the disposal of construction waste and mitigate clandestine dumping.	This project has operated continually and generated an important effect on the community. 123 pesos per cubic meter are paid when the waste is no greater than two cubic meters. If it is three to ten cubic meters the service costs 88 pesos. If it exceeds 10 cubic meters, in order to leave the program, 100 pesos are charg per cubic meter.
3.1.05	**Keep Pharr Beautiful Clean-up Campaign** Support monthly cleanup program Keep Pharr Beautiful with strong public outreach.	Public Works Department, City of Pharr	$20,000	Border 2020	Grace Gonzalez, Pharr Public Works Department, grace.gonzales@pharr-tx.gov	Reduce illegal dumping in residential and industrial sectors and encourage residents to take	The project has ended and the majority of objectives were attained. Various public awareness events and monthly clean-ups were organized. A workshop was organized for the

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						responsibility for the beatification of their communities.	community about the reduction of illegal dumping. The City plans to continue clean-up campaigns and environmental education activities.
3.1.06	**Alamo's Recycling TEAM Includes Everyone** Implement the Alamo's Recycling TEAM Includes Everyone (ARTIE) Project, which strives to enhance the management of solid waste in the city.	City of Alamo	$54,838	Border 2020	Melissa Gonzales, City of Alamo	Increase recycling efforts by at least 25%, increase awareness of non-point pollution and solutions and establish partnerships that will promote environmental stewardship.	Various presentations that reached 700 students were organized in 12 different locations in different schools. Bilingual signs about not littering were posted.
3.1.07	**Clean-up of Urban Solid Waste Disposal Site in Guerrero, Tamaulipas**	SEDUMA, Municipio de Guerrero, Tamaulipas	3.169 Millones Pesos	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Legalize and encourage compliance with NOM-083-SEMARNAT-2003, regarding the closure of final disposal sites.	Project certified by SEMARNAT and funding is in progress.
3.1.08	**Construction and Equipment of the First Phase of the Type A Landfill in Río Bravo, Tamaulipas**	SEDUMA, Municipio de Río Bravo, Tamaulipas	19.359 Millones Pesos	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Ensure adequate and modern infrastructure for the final disposal of urban solid waste.	Project certified by SEMARNAT and funding is in progress.

3.1.09	**Construction of and Equipment forType A Landfill in the Coal Deposit Region**	SEMA, SEMARNAT, Municipalities of Múzquiz and Sabinas	25 Millones Pesos	SEMARNAT PEF 2015	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Conduct soil studies. Under analysis prior to request for bids
3.1.10	**Construction of and Equipment for a Regional Landfill in the Municipalities of Juárez and Progreso, Coahuila**	SEMA, Municipality of Juárez and Progreso	8 Millones Pesos	PEMEX Hydrocarbon Fund	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Under analysis prior to request for bids
3.1.11	**Construction of and Equipment for two Urban Solid Waste Transfer Stations in the Municipality of Múzquiz, Coahuila**	SEMA, Municipio de Múzquiz	8 Millones Pesos	PEMEX Hydrocarbon Fund	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Under analysis prior to request for bids
3.1.12	**RECOLECTRÓN Program** Collection program for used electronics in the municipalities.	SEMA, Municipalities of Acuña, Allende, Nava and Sabinas	2 Million Pesos	SEMA	Griselda Salas Alemán, SEMA, griselda.salas@sema.gob.mx	In 2015 collect 44.91 tons. In 2016 collect 56.14 tons.	To date 44.89 tons has been collected
3.1.13	**Responsible Disposal of Tires** Operation of a scrap tire disposal center. Using three slices, reduce the volume and risk of standing water, a breeding ground for mosquitoes (vectors for dengue fever).	Municipality of Acuña, Coahuila	$12,000	Municipio de Acuña Coahuila	Biól. Carlos Alejandro Flores Diego, Director of Ecology, floresdiegocarlos@yahoo.com.mx	Develop the municipal infrastructure for storing, managing, and disposing of scrap tires.	A regulatory framework regulates management and a program is underway for storage, but infrastructure is required for final disposal.
3.1.14	**Disposal of Used Electronic and Hazardous Waste**	Municipality of Acuña, Coahuila	$12,500	Municipality of Acuña	Biól. Carlos Alejandro Flores Diego, Director de Ecología,	Develop the municipal infrastructure for	The regulatory framework was approved by the city council as well as changes to municipal

	Create a storage center for the special management of waste, in which			Coahuila	floresdiegocarlos@yahoo.com.mx	storing, managing, and disposing of used electronic and hazardous waste.	environmental regulations regarding to approve an operating license for six months and certification of training workshops. Partnering with CECATI #197 for certification.
3.1.15	**Scrap Tire Management Program** Design and implement a state scrap tire management program that includes valuation.	SEDUMA Tamaulipas	400 Million Pesos	SEDUMA, SEMARNAT, EPA	Biól. Jorge García, jgarciah@tamaulipas.gob.mx 834 1078291	Work with each of the state's northern border cities to systematically regulate the temporary storage and collection of used tires.	The state authorized the in environmental impact the ECONEU firm of Reynosa to operate the recycling and scrap tire processing plant, with which they anticipate reducing annually by 100,000 the number of scrap tires.
3.1.16	**Strengthen Solid Waste Programs** Design of a strategic planning tool that will comply with the National and State Programs for the Prevention and Management of Municipal Solid Waste in the municipalities of Río Bravo and Valle Hermoso, Tamaulipas.	SEDUMA Tamaulipas	$20,866	Border 2020	Oc. Heberto Cavazos Lliteras , SEDUMA, ssma@tamaulipas.gob.mx	Update the municipal solid waste environmental management system. Evaluate the management of municipal solid waste. Prepare a study on municipal solid waste generation.	
3.1.17	**Let's Clean it Up and Green it Up** Reduce littering and illegal dumping in all areas of the city, and improve the overall aesthetics of the city and offer viable solid waste disposal options for residents.	City of Pharr	$36,390	Border 2020	Grace Gonzalez, Pharr Public Works Department, grace.gonzales@pharr-tx.gov	Offer more solid waste, recyclables and tire disposal events. Install convenient recycling drop off areas. Host	

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						recycling and tire and illegal dumping education workshops. Improve existing residential tire tagging system.	
3.1.18	**Electronic Waste Recycling** Develop an educational campaign aimed at reducing used electronics by creating an integrated electronic waste recycling program and promoting sustainable practices	Grupo Ecológico Green Tec-Osos del Instituto Tecnológico de Piedras Negras	$36,054	Border 2020	Ing. Victor Ibarra, Instituto Tecnológico de Piedras Negras, ing_victor_m@prodigy.net.mx	Conduct workshops and campaigns at schools and public events on used electronics.	
3.1.19	**Used Electronic Recycling** Inform and educate the population of the benefits of reusing used electronic products, including sustainable management of consumer electronic goods and adequate disposal practices	SEMA Coahuila	$16, 777	Border 2020	Ing. Oscar Flores, SEMA, 01152844 698-10-91 ext.7268 oscar.flores@sema.gob.mx	Conduct an assessment as well as training of municipal ecology staff on used electronic and implement actions for adequate disposal.	

Goal #4: Enhance Joint Preparedness for Environmental Response

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Objective 2: By 2020, at least eight (8) of the sister city joint contingency plans will be supplemented with preparedness and prevention related activities such as certified training, risk analysis, and/or capacity building.							
4.2.01	**Update Cross-Border Contingency Plan**	Laredo Fire Department, Civil		EPA, COCEF, PROFEPA,	Steve Landin, Laredo Fire Department,	Hold new meetings of the staff of the two cities in order	The Laredo Fire Department and Civil Protection of Nuevo Laredo are engaged in discussions over

	Develop a cross-border contingency plan for the Solidarity Bridge, involving first responders from Colombia (Nuevo León), Nuevo Laredo (Tamaulipas), and Laredo (Texas), recognizing that Colombia, upstream from the other two cities, is much smaller and yet shipments of hazardous materials in the area are currently directed to this bridge.	Protection of Nuevo Laredo, and CILA, CODEFRONT, and the City of Laredo		and Protección Civil	slandin@ci.laredo.tx.us 956-795-2150 Juan Ochoa, Protección Civil Nuevo Laredo, Juan.u8a@hotmail.com 01152867 712-46-35	to revisit the language of the draft revision and possibly develop alternative language and include Colombia in the plan.	emergency protocols and a directory of emergency response officials that should be include in a new version of the plan. An English version has been drafted. Civil protection is reviewing the document.Both the English and Spanish versions will be reviewed and sent to City Council for approval.
4.2.02	**Hazardous Materials First Responder Binational Training in McAllen-Mission-Pharr, TX and Reynosa, Tamaulipas**	City of McAllen Fire Department	$75,000	Border 2020	Juan A Gloria Jr, Deputy Chief McAllen, jgloria@mcallen.net 956 681-2540	Hold a System and Incident Command Training with firemen from McAllen, Mission, Pharr, and Reynosa.	The McAllen Fire Department will coordinate and hold the workshop at the end of August.
4.2.03	**Binational Tabletop and Functional Exercises between the cities of Harlingen and Matamoros**	City of Harlingen Fire department	$60,000	Border 2020	Rogelio Rubio Harlingen Fire Chief rrubio@myharlingen.us	Hazmat training, a tabletop and functional exercise, partnering with first responders from Matamoros and the Cameron County Local Emergency Planning Committee.	

Commented [SN17]: What is CODEFRONT?

Promote Cross-Cutting Efforts Related to Environmental Health & Environmental Education

Project N°	Project Title Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Projects potentially related to some combination of air quality, water quality, water conservation, or waste management							
6.0.01	**Piedras Negras Urban Forest**	SEMA, Municipio of Piedras Negras, SEMARNAT	15 Million Pesos	SEMARNAT	Alejandra Carrera, SEMA Coahuila, alejandra.carrera@sema.gob.mx	Develop a 15 hectare urban forest in the city of Piedras Negras.	Ninety-four percent of the project is complete.
6.0.02	**Strengthening School Networks and Global Climate Change Surveillance "Casa de Tierra"**	SEDUMA, Municipal Government of Reynosa	$ 66 Million	Gobierno del Estado de Tamaulipas, SEMARNAT	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Build, equip, and operate three "Casas de Tierra" to help the population in the northern, central, and southern areas of the State. 160,000 annual visitors.	CDT Victoria operating since December of 2013. CDT Reynosa operating since January 2015. CDT Madero in the final phase of construction.
6.0.03	**Expansion of Environmental Management Systems Program** Expand Tamaulipas' state program in promoting environmental management systems (EMS, or SIMA, in Spanish) to more schools and government offices	SEDUMA Tamaulipas	$ 300,000	SEDUMA, Empresas Participants	Dra. Silvia Casas, SEDUMA, silvia.casas757@gmail.com	Implement and operate EMS (SIMAs) in schools and government offices in the main cities	SIMA enrolled more than 90 schools in Matamoros, Tampico, and Victoria. Each school held water, waste, and energy efficiency workshops, reaching a total of 26,000 students. Schools received equipment, such as low-flow toilets and recycling containers. SIMA trained 1,800 state employees on water conservation, energy efficiency, and recycling. State offices received water filters and energy-efficient light bulbs.

6.0.04	**Information Model for Health & Environmental Planning Along TX-MX Border** Development of a conceptual framework for a binational environmental and health information repository.	El Colegio de la Frontera del Norte	$39,875	Border 2020	Dr. Felipe Uribe, COLEF, ursafeja@gmail.com 878 782 7207	Identify required tools and needed capacity, compare existing systems, identify and recommend training or educational needs, and develop an indicator system to measure environmental health.	A theoretical framework to identify information on health and the environment has been worked on. Various key actors were interviewed. Information was obtained about health and environmental indicators through the development of Memoranda of Understanding between academic institutions involved in the project and the respective Secretariats of Health and the Environment of the state of Coahuila.
6.0.05	**Promotora-Led Environmental Health Education for Children** Support the development of an integrated approach for educating families on the dangers of exposure to mercury, lead, and pesticides, especially the effects on respiratory health, specifically asthma. These modules will be used to provide training to heath promotoras, who subsequently will provide educational information in elementary schools, child care settings and to colonia residents.	La Amistad AHEC and Southwest Border AHEC	$69,083	Border 2020	Rosa Elvira Martinez, Southwest Area Border Health Education Center, rose.martinez@swbahec.org (830) 758-1111	Conduct training and provide educational information on pesticide awareness to elementary schools and homes in colonias.	As of July 2015, promotoras had conducted visits to two elementary schools and one Head Start program to educate children on hazards related to pesticide exposure and household chemicals. Promotoras also conducted training on pesticide awareness in more than 30 homes and post-assessments in seven homes, with 23 of them expected to be evaluated in the fall of 2015.
6.0.07	**Environmental Education and Legislative Action Reforms** Improve the implementation of environmental legislative reforms by	Universidad Autónoma de Tamaulipas, Facultad de Comercio, Administración	$11,000	Border 2020	Dr. Juan Herrera Izaguirre, Universidad Autónoma de Tamaulipas, 0115286719-42-50 jaherrera@uat.edu.mx	Update Nuevo Laredo's environmental regulations in accordance with state and federal	

	exchanging information on environmental education and enforcement regulations that will improve air quality, environmental compliance and solid waste management in Laredo and Nuevo Laredo	y Ciencias Sociales de Nuevo Laredo				regulations, develop a database of environmental regulations in Tamaulipas border municipalities, train 15 Nuevo Laredo code enforcement and ecology staff on municipal environmental regulations, and promote sustainable management of waste and water conservation at schools.	